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XVIII

**REPORT OF THE DIRECTOR OF THE MUSEUM
AND OF THE AQUARIUM FOR THE YEAR 1929**

BY

BARTON WARREN EVERMANN

Director of the Museum and of the Aquarium

The Annual Report of the Director for the year 1928 was presented to the Academy at the Annual Meeting, February 20, 1929.

The present report submitted at this Annual Meeting, February 19, 1930, sets forth briefly the scientific and educational activities of the Academy for the calendar year 1929.

PERSONNEL

The employees of the Museum as of January 1, 1930, were as follows: Dr. Barton Warren Evermann, Director and Executive Curator of the Museum and of the Aquarium, and Editor of the Academy publications; Susie M. Peers, Secretary to the Board of Trustees; Joseph W. Hobson, Recording Secretary of the Academy; Alice Eastwood, Curator, Kate E. Phelps and John Thomas Howell, assistants, Department of Botany; Edward P. Van Duzee, Curator, J. O. Martin and Amy Williamson, assistants, Dr. Edwin C. Van Dyke, Honorary Curator, Dr. Frank E. Blaisdell, Research Associate, and Dr. Frank R. Cole, Associate Curator in Dipterology, Department of Entomology; Frank Tose, Chief, and Richard Cayzer, Russell Hendrick and Cecil Tose, assistants, Department of Exhibits; Dr. Barton Warren Evermann, Curator, and H.

Walton Clark, Assistant Curator, Department of Fishes; Joseph R. Slevin, Curator, Department of Herpetology; Dr. Walter Kendrick Fisher, Curator, Department of Invertebrate Zoology; Thomas Cowles, Assistant Librarian, and May Pepper assistant; Harry S. Swarth, Curator, Mary E. McLellan Davidson, Assistant Curator, and Joseph Mailliard, Curator Emeritus, Department of Ornithology and Mammalogy; Dr. G. Dallas Hanna, Curator, Dr. Leo George Hertlein, Assistant Curator, John L. Nicholson, Jr., assistant, Frank M. Anderson, Honorary Curator, and Dr. Roy E. Dickerson, Research Associate, Department of Paleontology; Constance W. Campbell, stenographer, part time; Evelyn Larsen, office assistant, part time; Raymond L. Smith, general assistant; Mabel E. Phillips, check-room attendant; William C. Lewis, janitor; Hugh Jones, assistant janitor; Robert L. Thompson, Jr., lecture attendant; Patrick O'Brien, day watch; Archie McCarte, night watch.

The Aquarium staff and employees as of January 1, 1930, were as follows: Dr. Barton Warren Evermann, Director; Susie M. Peers, Secretary, part time; Constance W. Campbell, stenographer, part time; Evelyn Larsen, office assistant, part time; Alvin Seale, Superintendent; Phyllis Beardslee, doorkeeper; Clynt S. Martin, chief engineer; B. T. Culleton, first assistant engineer; John A. Dwyer, second assistant engineer; Clyde E. Guidry, chief attendant; Jack Solini, first assistant attendant; L. R. Solini, second assistant attendant; J. N. Angelucci, third assistant attendant; Frank J. Maxwell, relief engineer and attendant; S. J. Shenefield, carpenter and general utility man; Charles W. Hibbard, assistant collector; Patrick O'Neill, janitor; Patrick McArdle, assistant janitor; James Cavanaugh, day watch.

Only a few changes have taken place in the personnel. Mrs. Johanna E. Wilkens, who had been employed as charwoman by the Academy for many years (in fact ever since 1895), met with a rather severe accident in which her shoulder was broken May 6, since which date she has been unable to return to her regular duties.

Aris Partidos, who served as usher at the Sunday lectures from March 13, 1927, to January 31, 1929, when he resigned. His place was taken February 3, 1929, by Robert Thompson, Jr.

Day-Officer Patrick O'Brien, after a protracted illness, was able to return to duty April 24.

Miss Clara Tose, preparator, Department of Exhibits, resigned October 6. Miss Dora Arnold, who had been door-keeper and typist in the Aquarium since November 10, 1925, resigned August 31, to accept a better position, and Miss Phillis Beardslee was appointed to the position September 12.

The most important change in the personnel was the resignation, December 31, of Mr. Wallace Adams, Assistant Superintendent of the Steinhart Aquarium, a position which he had held since July 20, 1923. Mr. Adams leaves the Academy to accept the position of Chief of the Division of Fisheries, Bureau of Science, Manila, Philippine Islands.

During the years that Mr. Adams was with the Academy as Assistant Superintendent of the Steinhart Aquarium, he showed himself a faithful and efficient employee, and it is with great regret that we lose him.

COOPERATION WITH PUBLIC AND PRIVATE SCHOOLS, WITH OTHER INSTITUTIONS, AND WITH INDIVIDUALS

The Museum continues to be of service to the schools, other institutions and individuals in their educational and scientific work.

In spite of the fact that all space available for public exhibits has long since been occupied, we have nevertheless continued to add to our educational exhibits, in the hope that facilities for putting them on exhibition may be provided in the near future.

Our research collections in several departments have increased greatly, as may be seen from the reports of the respective curators.

The Museum continues to loan portable habitat animal groups for circulation in the public schools, particularly in the Berkeley schools, where real interest in that form of education is strong.

VISITORS TO THE MUSEUM

	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929
Jan....	23,170	25,260	17,241	27,013	25,755	19,038	15,270	32,364	34,989	26,528	33,791	35,859	26,757	
Feb....	22,058	23,698	17,586	23,450	25,679	18,534	20,529	44,439	29,295	34,183	24,580	36,669	29,769	
March	31,606	26,810	27,397	25,419	28,279	27,922	26,341	39,935	39,168	38,677	34,624	31,414	40,680	
April.	32,175	23,274	25,994	32,208	24,939	36,057	21,911	41,332	40,257	36,746	38,452	42,965	31,419	
May..	26,154	26,391	28,369	37,107	25,517	27,237	37,597	48,152	38,137	52,913	47,414	43,129	41,318	
June..	32,123	29,843	32,248	36,207	29,406	27,131	39,511	58,281	51,775	53,799	51,630	51,100	65,998	
July..	37,193	31,420	48,028	52,492	43,186	36,263	64,530	91,329	69,921	83,707	84,282	84,406	68,658	
Aug... ..	24,619	31,137	43,730	53,470	39,422	34,787	50,849	105,130	77,847	81,362	66,870	73,282	62,880	
Sept.. ..	27,866	29,847	34,007	42,013	31,458	28,408	69,870	82,814	63,737	57,615	56,443	54,882	55,015	
Oct....	36,933	20,629	14,743	30,463	33,500	24,861	19,459	66,894	40,418	44,654	43,520	36,094	39,120	
Nov...	27,718	21,810	8,531	25,246	19,347	18,593	19,080	48,766	37,611	35,634	30,581	26,685	34,545	
Dec...	15,002	21,693	19,588	21,188	21,340	15,062	13,339	36,707	21,572	32,245	34,555	24,217	29,837	
Totals—	—	—	—	—	—	—	—	—	—	—	—	—	—	
for the														
years.	96,101	321,096	290,542	351,497	403,566	332,157	307,255	498,775	646,033	553,423	575,159	543,014	540,702	525,996

Grand total since opening of the Museum September, 1916. 5,985,316



VISITORS TO THE AQUARIUM

	1923	1924	1925	1926	1927	1928	1929
Jan....	.....	82,283	72,153	38,259	44,300	53,454	41,160
Feb....	.....	119,001	61,213	66,032	39,515	54,105	44,070
March..	.....	88,172	97,986	82,153	58,151	57,083	75,876
April...	.....	83,245	79,021	64,830	65,337	78,735	50,583
May...	.....	97,083	75,187	94,521	87,961	104,230	92,048
June...	.....	112,785	94,717	91,451	70,151	110,206	91,936
July....	.....	145,703	128,261	127,999	142,738	151,881	115,018
Aug....	.....	148,899	144,208	124,635	115,230	115,915	106,681
Sept....	29,800	116,032	106,492	86,645	87,909	92,755	121,143
Oct....	209,671	71,273	72,350	79,108	66,117	51,521	68,304
Nov...	145,434	67,500	59,074	49,741	44,643	50,554	72,149
Dec....	96,757	48,376	52,929	48,423	43,582	36,406	53,658
Totals for	.....	.....	.....	.....	.....	.....	.....
the years	481,662	1,180,352	1,043,591	953,797	865,634	956,845	932,626

Grand total since opening of the Aquarium September, 1923.....6,414,507

SCHOOLS VISITING THE MUSEUM AND THE AQUARIUM IN 1929

A detailed report of the schools whose classes, accompanied by their teachers, and the number of pupils that visited the Museum and the Aquarium in 1929, is in the files and may be consulted by anyone interested. Following is a summary:

MUSEUM

	In San Francisco	Outside	Total
Number of schools represented.....	71	32	103
Number of classes represented.....	181	38	219
Number of teachers accompanying the classes.....	184	40	224
Number of pupils.....	5,416	1,202	6,618
Total.....	5,852	1,312	7,164

AQUARIUM

Number of schools represented.....	82	34	116
Number of classes represented.....	236	75	301
Number of teachers accompanying the classes.....	216	51	267
Number of pupils.....	6,113	1,318	7,431
Total.....	6,647	1,478	8,115
Total for Museum and Aquarium.....	12,499	2,790	15,279

DEPARTMENT ACTIVITIES

The year has been marked by more than normal activity in the different departments, as is shown in detail by the reports of the respective curators. The growth of the research collections in each department has been very gratifying.

In the Department of Botany more than 10,000 sheets were added to the Herbarium, which raises the total number of sheets to over 171,000.

The Department of Botany can always be depended upon to make very great growth every year, and its accomplishments in 1929 have not fallen behind those of previous years. Miss Eastwood seems to be an adept in securing and holding the enthusiastic support and cooperation of botanists all over the country, among whom are always to be found one or more friends of means who are so enthusiastic and so anxious to be with Miss Eastwood in the field that they insist on paying all the field expenses themselves, as Miss Eastwood will no doubt set forth in her report.

In Entomology more than 32,000 specimens were added to the research collections. These include the J. O. Martin collection of Coleoptera numbering 11,200 specimens, a miscellaneous collection of about 4,000 specimens donated by Dr. Van Dyke, and 2,000 specimens, many of them very desirable moths, donated by Mr. Louis S. Slevin of Carmel.

The growth of this department in recent years under Mr. Van Duzee's direction has been phenomenal, and it can now be said that the California Academy of Sciences has become the entomological center for the Pacific area. Any entomologist who wishes to carry on studies of the insect faunas of the Pacific area must make use of the collections in the California Academy of Sciences.

The activities of the Department of Exhibits are fully set forth in the report of Mr. Tose. From his report it may be seen that the Department has been active in caring for the exhibits, adding new ones, and in improving the general attractiveness of the Museum.

The Department of Fishes has, in a single bound, come to be one of the most important departments of the Academy, through the acquisition of the Jordan-Eigenmann collection of

fishes of about 220,000 specimens. The Academy and Stanford University with its more than 100,000 specimens, will thus become the ichthyological center for the Americas and the Pacific area. No one can do satisfactory work on the fishes of South America, western North America, the islands of the Pacific, or Japan without consulting the collections here and at Stanford.

The Library, under Assistant Librarian Cowles's efficient management, is rapidly becoming accessioned, catalogued and properly arranged on the shelves. The number of accessions for the year, through exchange, donation and purchase, has been about 9000, including parts of volumes, pamphlets, and unbound volumes. The most urgent needs of the Library are more funds for completing sets of the publications of learned societies, for binding, and for additional clerical help.

The Department of Ornithology and Mammalogy has been very active during the year, not only in field work, in securing large and important additions to its research collections, but in scientific research, as is fully set forth in the Curator's report.

Two very important expeditions were in the field for the Department in 1929, one in the Lake Atlin region in northern British Columbia, the other in the Republic of Panama. Each of these expeditions secured large and valuable collections of birds greatly needed in the Department studies of avifauna of those regions.

The Academy has been fortunate in securing a number of important collections of bird skins, the most important being the H. S. Swarth collection of 3150 specimens and the G. Frean Morcom collection of 3000 specimens. The details of these valuable donations are given in the Curator's report.

The Department of Paleontology has been active in field work and in scientific research, for which the research collections of the Department are growing more and more attractive every year.

It is very gratifying to note that the members of the staff of this Department are called upon so frequently by oil companies and other commercial interests for assistance and advice. They have come to realize that the Academy can be of real service to them in many ways.

DEPARTMENT REPORTS

DEPARTMENT OF BOTANY

The herbarium now numbers over 171,000 mounted sheets of specimens, an increase of about 10,000 during the year. Besides, there are many duplicates to be used as exchange material when time permits their distribution to other institutions.

Several collecting trips were made by the curator with no expense to the Academy. In March the curator was invited to Santa Barbara to address the members of the Museum of Natural History and the Garden Club. On the return a day was spent at San Luis Obispo and 40 specimens were collected, among them being specimens of a most interesting cypress. The month of May was spent in Arizona in the region of the Apache Trail as the guest of Mrs. S. D. McKelvey and Mr. and Mrs. Roland Still of the Apache Lodge. Railroad transportation was furnished by the Southern Pacific Railroad. The results of the trip will be published later. 829 specimens were added to the collection besides many duplicates. A short trip to the Calaveras Grove of Big Trees was made in early September with the Alpine Club which added 33 specimens. Mrs. E. C. Van Dyke made a collection of 60 specimens on Mt. Hood and Three Sisters in Oregon and was aided by a small contribution.

Duplicates have been sent to the following institutions: Dudley Herbarium, Stanford University, 35 from Lower California; Royal Herbarium, Kew, Surrey, England, 36 specimens of *Lessingia*; Arnold Arboretum of Harvard University, 473 exotics; University of Montreal, Canada, 200 from Alaska and the Yukon; University of Asiae, Mediae, Turkestan, 456 miscellaneous; Charles Piper Smith, San Jose High School, 20 lupines.

Specimens have been received in continuation of exchange from the following institutions:

Dudley Herbarium, 110 from Southern California collected by Prof. LeRoy Abrams; Field Museum, Chicago, 913 unmounted and 247 mounted miscellaneous; University of Montreal, 502 chiefly from Northern Canada; Pomona College, Claremont, Calif., 230, chiefly duplicates from the Jones Herbarium; University of Asiae Mediae, 175 from Turkestan. Arnold Arboretum, Harvard University, 150; J. F. Rock's collection in China, 54 from Australia and 18 North America; University of California, 385 flowering plants and 38 fungi; Dr. S. F. Blake, U. S. Dept. of Agriculture, 51 miscellaneous.

The following have been received by purchase: S. Venturi, 403, Argentina, South America; J. W. Blankinship, 599, Lake County; J. Aug. Kusché, 100, Southern Arizona; Ines Mexia, 351 Mt. McKinley National Park, Alaska.

The following gifts have been received: William Vortriede, 138 from Sacramento and mountains adjacent; The Swarth family, 179 from Lake Atlin region, British Columbia, collected on H. S. Swarth Ornithological Expedition to the region; Eric Walther, 500 exotics from Californian gardens; Mrs. Sidney Eastwood, 22 from Colorado; Mrs. S. D. McKelvey, 137 from Arizona; Mrs. Geo. H. Phelps, 100 from Idaho, Utah and Colorado; Julia McDonald, 32 from Fresno County, Calif.; Gwendolan Newell, 50, Silver Lake, Amador County, Calif.; Ines Mexia, 35, Mexico; Ivan Branson, 51, Tuolumne County, Calif.; John Thomas Howell, 1103 miscellaneous California plants; S. Jussel, 127

from Lake Tahoe region, Calif.; Ralph Hoffmann, 304 chiefly from the islands of Santa Rosa and Santa Cruz, Calif.; George Kramer, 25 from near Mt. Lassen. Several smaller gifts have been received, chiefly specimens for identification, and the names of the donors will be found in the general list.

The California Botanical Club has given a collection of water-color paintings of California flowers and also the case on which they will be exhibited in the Museum.

The herbarium has become the only reference place for the numerous exotics that are cultivated in the parks and gardens of California, and is consulted by gardeners and botanists from all parts of the state. The collection of Californian species is now necessary to those making special studies, and loans are sent to institutions and individuals for revisions and monographs.

The curator continues to give popular addresses on botanical subjects to schools and clubs, carries on the California Botanical Club which has meetings or excursions almost every week. The class of gardeners meets twice a month in the evenings at the herbarium. It enables the more ambitious gardeners to learn the names of the plants in the park.

The exhibition of native and the exotic flowers growing out-of-doors is kept up throughout the year by my assistant, Mrs. George H. Phelps. Mrs. E. C. Sutcliffe and Mr. Ivan Branson have helped greatly by collecting native species while Eric Walther is very faithful in furnishing the exotics, chiefly from the park. Hundreds of species are exhibited at the entrance of the Museum during the year, each labelled with scientific and common name also where collected, or, in the case of exotics, the native country. These exotics come from all parts of the world and the exhibit is one of the most valuable educational features of the Academy. My assistant also mounts all the specimens, does most of the distributing into the herbarium, attends to the care of fresh specimens that need drying, and in every way relieves the curator of much detail. During the past year John Thomas Howell has been employed as extra assistant for three months, doing valuable work in rearranging the herbarium, and in labelling and distributing specimens.

ALICE EASTWOOD, *Curator.*

DEPARTMENT OF ENTOMOLOGY

Additions to the Department of Entomology during 1929 numbered 32,173 specimens. This number includes the J. O. Martin collection of Coleoptera which was announced as received two years ago but was not then enumerated among our accessions. Mr. Martin has now completed the incorporation of this collection, numbering 11,200 specimens, into the general collection of the Academy. The next largest single addition by gift was a series of 3859 miscellaneous insects other than Coleoptera, presented by Dr. E. C. Van Dyke from various localities in California, largely from the Sequoia National Park. Another gift of much value was a collection of 2,000 insects received from Mr. Louis S. Slevin of Carmel, a considerable portion of which are moths taken by him at night. These moths will add to our series of many interesting and valuable species and are especially welcome as the department staff has little

opportunity of doing such collecting. Mr. Gorton Linsley presented to the Academy 601 exotic insects, mostly European. From Mr. George Swarth the Academy secured by purchase 907 insects from about Atlin, B. C., among which was a good representation of the butterflies of that district, heretofore very poorly represented in our collection. From Mr. H. S. Parish the Academy secured by purchase 1,194 insects, mostly Coleoptera from the Province of Czechuen, China. Dr. F. E. Blaisdell gave us 279 insects other than beetles, from Santa Barbara, Calif., and New Hampshire. By exchange we received 92 South American insects from Dr. F. W. Goding, and by purchase 61 Edessas from South America needed to fill vacancies. Other valuable additions were 109 moths from Glacier National Park presented by Dr. E. H. Nast; 71 from Colombia, South America, presented by Mrs. S. C. Capp, 45 moths from Nicaragua, mostly beautiful specimens, presented by Mr. J. M. Nicol through Dr. G. Dallas Hanna; 17 collected by Mr. G. W. Heid in Sumatra and presented by Mr. Graham Heid; 14 Hemiptera from the Orient presented by Prof. T. D. A. Cockerell; 37 miscellaneous insects from California presented by Mr. E. R. Leach; 20 from Samoa presented by Mr. Alvin Seale, and by field work were added 2,336 specimens taken by Mr. J. O. Martin in Texas, and 8,620 secured by the curator. In addition should be mentioned probably three or four thousand beetles taken by Dr. Van Dyke which will be included in the final count of the Van Dyke collection and several hundred added by Dr. Blaisdell and Mr. L. S. Slevin to their collections of Coleoptera, now a part of the Academy collection.

The Department field work in 1929 consisted of a collecting trip by auto through Owen's Valley, going by Bakersfield and returning by Carson City and Tahoe. This was a section of the state almost unrepresented in our collections. Mr. Robert Usinger accompanied the curator as assistant. He proved to be an efficient and enthusiastic collector and should be credited with about half of the specimens taken. The curator also made a brief trip to Yorkville, Mendocino County, and another to Santa Cruz. Mr. Martin spent about two months near the former home of G. W. Belfrage near Waco, Texas, with the object of securing toponotypical material of some of the many species described from material taken by Belfrage.

In 1929 the Department of Entomology suffered a sad loss in the death of Mr. Walter M. Giffard of Honolulu, who in the past, has been a good friend to the Academy and an active worker in its interest. It was through his influence that the Academy secured the very valuable Koebele collection, and only last year he presented to the Academy his large collection of North American Delphacidæ.

During 1929 the rearrangement in our unit boxes of the Academy's large collections of Coleoptera and Hemiptera progressed as rapidly as the acquisition of cases and drawers would permit. Work on the material in other orders of insects has had to await the purchase of necessary cases. As heretofore, Mr. Martin has worked on the Coleoptera, assorting and arranging the material in the various components of the Academy collection. For much of the past year Dr. Blaisdell has spent two days each week at the Academy working up the Academy material, including his own collection, in certain families of beetles, and Dr. Van Dyke has spent one day a week at the same work and has studied monographically several families at his home. The curator has found

time to study and arrange a few more families of the Hemiptera and has begun the arrangement of our butterflies in which work he has had help from Mr. Graham Heid.

The publication of the Pan-Pacific Entomologist has continued. Five volumes have been completed and volume six is in course of publication. This journal has furnished an outlet for all the shorter papers on the Academy collection of insects.

The need for more insect cases is as pressing as ever. The Academy accepted several large private collections of insects when it had no cases in which to place them. Each year a large proportion of the funds allotted to the Department of Entomology must go for cases and even that proves hardly more than enough to care for the natural growth of the department. A special appropriation is needed to secure cases for the rich material acquired with the Van Dyke, Blaisdell and Koebele collections.

E. P. VAN DUZEE, *Curator.*

DEPARTMENT OF EXHIBITS

The work of overhauling the habitat groups in the Bird Hall was completed early in the year. Two floor cases were reconstructed to hold groups of Great Horned Owl and American Barn Owl respectively. These groups are of the same dimensions as our series of panel groups, and can be installed as such whenever opportunity offers.

The collection of modelled Fungi has been placed upon exhibition.

On May 17 I left San Francisco for the purpose of attending the annual meeting of the American Association of Museums in Philadelphia. The object of this visit was to organize a section of the association whose purpose should be the exchange of knowledge for betterment of all arts and crafts connected with the making and installation of museum exhibits. Thanks to the splendid cooperation received, this object was accomplished, and the Technical Section of the American Association of Museums is now functioning to the benefit of all concerned. Upon the return trip several eastern museums were visited and, thanks to the kindness and courtesy of the directors, curators, and preparators of these institutions, much information of value was secured. I returned to San Francisco June 8.

Several months of the year were taken up with the preparation of a scale model of our proposed African Mammal Hall. With the help of my assistants this has been completed. This scale model is as complete as it is possible to make it, and depicts one of the three halls that will be necessary to house the Simson African Mammal collection. It has been placed on exhibition in the California Mammal Hall, and is proving of value in many ways.

Miss Clara Tose rendered valuable assistance during the greater part of the year, leaving the department October 6. Mr. Richard Cayzer has been employed as assistant since October 30. Cecil Tose and Russell Hendrick have also been employed as part time assistants during the year.

FRANK TOSE, *Chief.*

DEPARTMENT OF FISHES

In the year 1929 the Curator and the Assistant devoted considerable time to reading proof of the new Check-List of the Fishes and Fishlike Vertebrates of North and Middle America north of the northern Boundary of Venezuela and Colombia, by Jordan, Evermann and Clark, which was published by the U. S. Bureau of Fisheries February 8, 1930.

As this Check-List includes 4137 species and subspecies admitted as valid, together with the reference to the original description of each, also to each of the more than 4,000 synonyms, it is really a check-list of all the names that have ever been applied to American freshwater and saltwater fishes. The publication contains 670 pages of which 158 are devoted to the Index in which there are more than 15,500 page references. This will give some idea of the great amount of labor and time that the proof-reading required.

The report on the fishes collected by the Academy's expedition to the Revillagigedo Islands in 1925 was completed in 1929, and the manuscript is now ready to send to the printer.

For several years the Assistant Curator has been assisting *Biological Abstracts* in the preparation and editing of abstracts of current ichthyological publications.

Abstracts prepared by the authors or others are referred to us by Biological Abstracts office from time to time for editing or completing. In many cases they are prepared here.

As a side product of this work, all new genera were card catalogued as they appeared, for use in a supplement to Jordan's Genera of Fishes, thus bringing that publication up-to-date. New species described from the territory covered by the new Check-List of Fishes were noted for inclusion in an addendum to that Check-List to be published in the near future.

From June 9 to June 16, was spent by the Assistant Curator with the aquarium collector on a trip to the desert about Salton Sea in search of desert minnows, *Cyprinodon macularius*. It was found that in the irrigation ditches this species had been mostly or altogether replaced by the Mosquito fish, *Gambusia affinis*. The desert minnows, of which a good number were finally secured, were found only in the highly saline waters of the lower stretches of San Felipe Creek, and in the Salton Sea itself. The Gambusias were at first not recognizable, being a brilliant turquoise blue, which is, indeed, the color of the male *Cyprinodon*. After a half-year's sojourn in the Aquarium they lost much of this color.

The general collection of fishes has been gone over from time to time and fresh alcohol added as needed. In addition to the general catalogue of serial numbers, a card catalogue has been made of all specimens as they are arranged on the shelves. Puzzling specimens when brought in are identified, and if not in the collection, or desired for any other purpose, are added, accessioned and cared for.

The most important event of the year in connection with the Department of Fishes was the securing of the Jordan-Eigenmann collection of fishes, by purchase from Indiana University.

This enormous and valuable collection of more than 220,000 specimens was begun in the early eighties by Dr. David Starr Jordan and his students at

Indiana University. It was greatly enlarged by Dr. Carl H. Eigenmann who was professor of zoology at Indiana University from 1891 until his death in 1927, assisted by his students. Dr. Eigenmann was especially interested in the fishes of South America, and the collections resulting from his many expeditions to that continent form, in the aggregate, the most complete and valuable ever assembled by any one ichthyologist. Besides the North American and the South American components, the Jordan-Eigenmann fish collection contains large representations of the fish faunas of Europe, Asia, the Philippines, the Hawaiian Islands, and many other parts of the world.

Last September, the Curator, the Assistant Curator and Superintendent Seale of the Aquarium went to Bloomington, Indiana, where they, assisted by local help, devoted the entire month of October to packing the collection and preparing it for shipment to San Francisco.

The collection was packed in 100 large earthen jars, 13 large boxes, and 500 large cartons.

A large freight car, such as is used in which to ship automobiles, was used and so securely were the many containers packed in the car that the shipment came through to San Francisco without loss or injury to a single specimen.

This great collection contains many types and cotypes and will be invaluable to specialists who are interested in the ichthyological fauna of the Americas and other countries of the Pacific area.

It is now temporarily installed in the basement of the Steinhart Aquarium where it is being unpacked, segregated and placed on shelves for further assortment and study.

In the East Wing of the Museum, upon which it is hoped construction will begin soon, will be provided a basement specially designed and up-to-date in every respect in which the fish collections will be installed and which will provide proper shelving, laboratory and library facilities and offices.

HOWARD WALTON CLARK, *Assistant Curator.*

DEPARTMENT OF HERPETOLOGY

Owing to the proposed field work for the year 1929 which would necessitate a long period of absence in the field the entire collection of alcoholics was overhauled and specimen jars refilled when necessary to ensure the safety of the collection. This occupied considerable time, there being several thousand jars to be gone over. A thorough overhauling and examination was also given the collection of Galapagos tortoises, the work on both collections occupying about three months.

The greater part of the year 1929 was given to field work in Australia, the curator being absent in the field from June 27 to the end of the year. By the end of December 1,052 specimens from various localities had been collected and preparations made to continue the work during January and February of 1930.

Friends of the department have been generous during the year and gifts of specimens have been received as follows: From L. S. Slevin, 16; D. R. Bull, 2;

Charles E. Burt, 10; Hans Geyer, 6; Don C. Meadows, 1; Charles Toftley, 2; Dr. E. C. Van Dyke, 1; Dr. G. Dallas Hanna, 3; Dave G. Gamon, 1; H. S. Swarth, 17.

JOSEPH R. SLEVIN, *Curator*.

DEPARTMENT OF LIBRARY

The work of the Library during 1929 proceeded mainly in accordance with the plans announced in last year's report. Temporary wooden shelves were installed early in the year. These, together with the space released by moving the stock of Academy publications from the store room to the lower corridor, and the mass of uncatalogued material from the lower library to the store room in turn, furnished room for shifting the whole collection forward, so that the badly crowded condition of the shelves could be relieved.

During the process all separate titles were inventoried by the shelf-list as they were moved. This took longer than it was expected to for it was found that many of the books had never been shelf-listed and most of those that were had no record of accession numbers. Consequently a large number of temporary shelf-list cards had to be made, thus slowing up the project so that it was not quite finished by the end of the year. Sets of serials were not inventoried at the time of moving. It is planned to begin doing this systematically as soon as the shifting is completed, when unbound volumes will be carefully checked and tied up and the missing numbers acquired if it is found still possible to get them.

The accessions for the year were as follows:

	Bd. vols.	Unbd. vols.	Partsof vols.	Pamphlets	Maps
Exchange.....	50	125	4063	89	127
Gift.....	54	46	1812	269	53
Purchase.....	363	239	1690	17	1
	—	—	—	—	—
Total.....	467	410	7565	375	181

Among the reference books obtained for the main Library may be mentioned the United States Catalog of Books in Print January 1, 1928; the Union List of Serials in Libraries of the United States and Canada; the World List of Scientific Periodicals; Minerva, Jahrbuch der Gelehrten Welt, 1928; the 12th edition of the Dewey Decimal Classification. These have been in almost daily use since their acquisition. Other titles of unusual interest are: Index Londinensis to Illustrations of Flowering Plants, volume 1; Hegi's Illustrierte Flora von Mittel-Europa; Nouvelles Archives du Muséum d'Histoire Naturelle, Paris, 2d series, 3d series, and volumes 1-7, 9-10 of the 4th series; Donovan's Natural History of British Birds, 1794-1819; Rothschild's Extinct Birds, 1907; Bellardi & Sacco's Molluschi del Piemonte e della Liguria, 1873-1904; Bolten's Museum Boltenianum, part 2, 1906; Born's Testacea Musei Caesarei Vindobonensis, 1780; Martyn's Universal Conchologist, 1784.

The cataloguing accomplished during the year was practically none, due to every effort being expended on the shifting of the bookstock. New exchanges

added total 27, a small number but also due to the emphasis of the year's work elsewhere. The number of volumes bound was 144.

Miss Dora Arnold's part-time assistance in the Library ceased early in September when she left the Aquarium. The loss of her help, little as it was each day, is keenly felt and the amount of unshelved accessions that have accumulated in three months seriously congests the available working space in the Library. This will be quickly cleared up, however, early in 1930 upon the arrival of a temporary full-time assistant which the Council has kindly granted because of the assistant librarian's plans to undertake graduate work in bibliography at the University of California. Miss Phyllis Beardslee, Miss Arnold's successor, handled the Library's secretarial work very efficiently for the remainder of the year.

An item of passing interest is the adoption by the American Association of Museums of the practice of printing the Dewey classification number at the head of each article in *The Museum News* that is sponsored by and published for its Technical Section, the group formed by Mr. Tose of the Academy staff last Summer. The suggestion of thus printing the Dewey number, made by the assistant librarian and proposed by Mr. Tose, was intended as an aid not only to librarians but also to workers in the field who wish to keep their literature systematically arranged. The practice has been in use for some time by the American Museum of Natural History in their *Novitates*. The Dewey classification is the one used in the Academy Library, which will be greatly benefitted by the plans of the Library of Congress shortly to print the Dewey numbers on its catalogue cards.

The assistant librarian was appointed, in the Fall, secretary of the Special Libraries Section of the California Library Association, whose annual convention will be held next July in Los Angeles in conjunction with that of the American Library Association. He also served on the convention committee and was chairman of the directory committee of the local chapter of the national Special Libraries Association, and was elected in December president for 1930. The local chapter will be hosts in June to the national Association at their annual convention, the first on the Pacific coast. This convention will be significant to the Academy for among its meetings will be the first regular one to be held by the Museum Group of the Association.

The crying need of the Library is the same as emphasized in last year's report,—namely, sufficient income to provide not only the old and current literature so badly needed for the use of both staff and membership, but also adequate personnel so that the collection may be made to serve its clientele efficiently and constructively by anticipating in many cases its requirements.

THOMAS COWLES, *Assistant Librarian.*

DEPARTMENT OF ORNITHOLOGY AND MAMMALOGY

The Curator and the Assistant Curator each spent about three-fourths of the year in curatorial duties and at studies that they have undertaken, the remaining quarter being devoted to field work. The Curator has continued to allot to the study of the Academy's collection of Galapagos Islands' birds just as much time as could possibly be spared from routine office duties for that

purpose; other minor researches (with the possible consequent publication of short papers) have been almost entirely abandoned for the time being. Mrs. Davidson's research program has included further work upon Mr. Loomis's unfinished "Monograph of the Tubinares," and on fossil whale material from the collection of the Department of Paleontology.

The Curator spent the period from June 9 to September 26 on a field trip to Atlin, in extreme northern British Columbia, making further observations and collections in a region wherein he has pursued field work on several previous years. The Swarth family participated in this trip, and members thereof collected plants and insects for other Academy departments. A special effort was made toward the collecting of juvenal and other little-known plumages of various northern birds, practically all of which material was new to the Academy collection. Mrs. Davidson left on October 25 for a three months' stay in the Republic of Panama. Her time was spent in Chiriqui Province and collections were made near the Costa Rican boundary at various elevations from sea level to 4,500 feet.

Mr. Joseph Mailliard, Curator Emeritus, has been actively engaged in bird-banding during the fall and winter months of the last year, in Golden Gate Park and at Woodacre, Marin County. Approximately 800 birds have been banded, and information of importance is gradually being accumulated and placed in proper shape for future use. An unexpected side-issue of the bird-banding was the collection of a series of microscope slides of blood-smears of *Zonotrichia nuttalli* and *Z. coronata*, gathered at the request of Dr. Clay G. Huff of the Harvard Medical School, and, according to information received from that gentleman, proving to be of unusual value in the research in which he is engaged.

Two important donations were received during the year. First, the H. S. Swarth collection of bird skins (3,150 specimens) was purchased and presented to the Academy by a donor who prefers to withhold his name. Then, the G. Frean Morcom collection of bird skins (3,000 specimens) was received as a gift from Mr. Morcom. These two collections are complementary to each other in some respects, and together they contain long series of specimens of species that heretofore were poorly represented or not contained at all in the Academy collection. The Morcom collection in particular contains many specimens of rare, near-extinct, and extinct species, mostly collected by Mr. Morcom, himself, forty or fifty years ago. While it is a matter of unqualified congratulation that the Academy should receive these rich additions to its collection, their acceptance entails heavy responsibilities on our part, for these gifts serve to emphasize still further the impossibly crowded condition in which the bird collection is now housed. As the storage rooms now are it will be impossible to rearrange cases and contents to incorporate the acquisitions of the year, so as to have the specimens properly convenient of access and hence of greatest possible use.

The department continues, as heretofore, to serve as a local bureau of information on questions pertaining to birds and mammals. Of greater importance is the use that is being made of our material by research students in other institutions. Our entire series of several species of birds and mammals are now on loan, giving important aid to studies of just the sort that the Academy should foster to the utmost of its ability. On the other hand, it is

proper to point out that the department is in receipt of quite as generous aid from other institutions, in recognition of the value of the work that we are carrying on.

In May, 1929, the annual meeting of the Cooper Ornithological Club was held in the Bay region, and on one of the two-day sessions the club was the guest of the Academy. About sixty members of the Cooper Club were in attendance.

On the whole, growth of the collections during the year was eminently satisfactory, and departmental work progressed about as satisfactorily as could be hoped for under existing crowded conditions. The outstanding needs of the department continue to be, in increasing measure: (1) Floor space, for storage cases and also for tables or benches to be used in cataloguing, studying and otherwise handling specimens. (2) A new metal-lined storage room for large mammals. (3) An additional assistant, the greater part of whose time could be devoted to field work. In addition, it would be desirable if an Assistant Curator of Mammals could eventually be appointed. There is not now, and never has been, anyone in the department primarily interested in mammals, and the mammal collection has not attained to the importance that it should.

Details of the several accessions are as follows: Birds. *Gift*: Anonymous, 3150; C. R. Boatright, 1; F. E. Booth, 4; D. B. Bull, 1; California Department of Natural Resources, Division of Fish and Game, 1; Department of Exhibits, California Academy of Sciences, 50; Mrs. Barton Warren Evermann, 315; E. E. Eyer, 1; E. W. Gifford, 7; F. W. Goding, 5; Hugh Logan, 1; Joseph Mailliard, 1; John McLaren, 3; James Moffitt, 2; G. Frean Morcom, 3000; Mori Bird Store, 5; J. V. Patton, 2; M. S. Ray, 1; A. W. Robison, 12; W. J. Steinbeck, 3; R. L. Thompson, 1; Henry Trost, 6; Henry Warrington, 1. *Expedition*: H. S. Swarth, 300. *Purchase*: 114.

Eggs. *Gift*: G. Dallas Hanna, 22 sets; Hugo Lotzen, 1 nest. *Expedition*: H. S. Swarth, 6 sets and nests.

Mammals. *Gift*: Brooklyn Museum, 2; Department of Exhibits, California Academy of Sciences, 37; Barton Warren Evermann, 15 (colored plates); Mrs. Barton Warren Evermann, 1; H. A. Haskell, 3; Joseph Mailliard, 2. *Expedition*: H. S. Swarth, 32 skins and 33 skulls.

HARRY S. SWARTH, Curator.

DEPARTMENT OF PALEONTOLOGY

In order to prevent the collections of the department from completely outgrowing the available space for housing, exploratory work for the time being must be confined to the procuring of only such fossil material as will substantially aid in projects already under way. Much virgin territory remains to be examined for fossils and living shells in western North America, but much care must be exercised to prevent the accumulation of such a great amount of research material that effective study and orderly arrangement becomes impossible.

Following out the lines of investigation already begun, Mr. F. M. Anderson

made several trips to northern California during 1928 and secured a fine lot of Cretaceous fossils. Since the ammonites of this period are to be found at only a few favorable localities in the state and are greatly damaged by weathering, it is highly desirable that the ground be gone over thoroughly at frequent intervals.

Other important Cretaceous collections were obtained in Alberta by Dr. Leo George Hertlein while engaged in geological investigations for the Hudson's Bay Marland Oil Company of Canada. During this time he was on temporary leave of absence from the Academy.

The work of identification and cataloguing of the collection was continued as rapidly as possible. Through the efforts of Dr. Fred Baker and Mr. A. M. Strong several additional families of marine shells from Mexican waters were classified. As this work progresses the wealth of material obtained by the Academy's three recent expeditions becomes more evident. Mr. Strong likewise was responsible for the preparation of lists of the marine shells from Guadalupe Island and the Revillagigedo Islands.

During the summer Dr. H. B. Baker, of the University of Pennsylvania, collected land and freshwater mollusca extensively in the west and it was possible for Mr. John L. Nicholson and the curator to accompany him to Klamath Lake, Oregon, for a few days. A large amount of excellent material was obtained on this short field trip.

More valuable collections of foraminifera were added to the collections during 1929 than during any previous year of existence of the department. Fortunately such fossils take up little room. The field work was done by Mr. C. C. Church and the curator through the sympathetic cooperation of Mr. L. C. Decius, Chief Geologist of the Associated Oil Company. Additional fossil diatom material of great value was obtained through many channels.

The acquisition of the great Baldwin collection of shells has been noted in the report of the Director for 1928. This fine accession was a gift to the Academy and a direct result of the interest in the institution held by Mr. Church. It is a matter of great regret on the part of the staff of the department that sufficient storage cases are not available for the unpacking of the entire collection and there is no available room for them if cases were on hand. By condensing and consolidating some of the present collections to the greatest possible degree it is hoped that room will be provided for the placing of the most important of the Baldwin shells in the research series.

Much use has been made of the Academy's paleontological collections by students elsewhere, particularly from the University of California and Stanford University. Among others who should be mentioned are: Dr. H. A. Pilsbry, Academy of Natural Sciences, Philadelphia; Prof. Junius Henderson, University of Colorado; Dr. H. B. Baker, University of Pennsylvania; Mr. Allyn G. Smith, Berkeley, California; and Dr. Mary J. Rathbun, U. S. National Museum.

The research work carried on in the department has been greatly facilitated by the assistance rendered by Mr. Thomas Cowles, Assistant Librarian. His ever ready willingness to take the necessary steps to procure needed books, either by purchase or loan, has been of much help in the progress of our investigations.

Outstanding loans of research material at the end of the year were as follows: Mr. A. M. Strong, Los Angeles, Calif.; Dr. Fred Baker, Point Loma, Calif.; Dr. Bryant Walker, Detroit, Mich.; Mr. Allyn G. Smith, Berkeley, Calif.; Dr. S. Stillman Berry, Redlands, Calif.; Dr. Paul Bartsch, U. S. National Museum, Washington, D. C.; Dr. Hubert G. Schenck, Stanford University, Calif.; Miss Nellie M. Tegland and F. Earl Turner, University of California, Berkeley, Calif.; Dr. Arthur Hollick, New York Botanical Garden, New York, N. Y.; Dr. H. McMillan, Natural History Museum, Stanford University, California.

G. DALLAS HANNA, *Curator*.

DEPARTMENT OF STEINHART AQUARIUM

The year 1929 has been a very satisfactory one for the Aquarium. The exhibits have steadily increased in number, interest and attractiveness. The attendance has been large. More than six million people have visited the institution since its opening in 1923.

Gifts received have been numerous and valuable. A friend of the Aquarium has written into her will a legacy to provide a comfortable and proper place for turtles and amphibians. The donor desires her name withheld for the present. An interesting collection of 81 live Australian fishes, including 40 sea horses, was received from the Aquarium in Sydney. The New York Aquarium presented six horseshoe crabs. Superintendent John McLaren presented six large clusters of bamboo, which add greatly to the attractiveness of the swamp room. The total number of gifts exclusive of several thousand small fishes, numbered 429 and includes seven live alligators, one crocodile, two seals, two sea lions, and a large number of other live animals. A complete list with the name and address of each donor will be found in the files of the Aquarium.

From April 25 to June 14 a collecting trip to Pago Pago, Samoa, was made by the Superintendent and 321 beautifully colored tropical fishes were brought back alive and placed in the exhibition tanks. Volunteer assistance on this trip was given by Mrs. Seale, who by special invitation visited Samoa as a guest of the Matson Navigation Company.

During the months of October and November all of the large aquariums in the United States were visited by the Superintendent and their exhibits and methods of operation carefully observed and noted. The annual convention of Park and Aquarium Executives at Miami, Florida, was attended on November 19-21, at which an address on public aquariums was given by the Superintendent.

On December 31 Mr. Wallace Adams resigned as Assistant Superintendent of the Aquarium to accept a position in the Bureau of Science, Philippine Islands. The entire personnel of the Aquarium will miss the cheerful presence of Mr. Adams.

On December 31, 1929, the following animals were on exhibition at the Aquarium:

Mammals.....	11 of	3 species
Birds.....	1 of	1 species
Reptiles.....	208 of	33 species
Batrachians.....	53 of	9 species
Fishes.....	9375 of	282 species
Invertebrates.....	41 of	31 species
<hr/>		
Total.....	9689 of	359 species

For the coming year the following improvements are suggested: That we ask the city for a new wing for additional tropical saltwater fishes, as suggested by President Grunsky; that the court in front of the Aquarium and around the seal pools be properly paved; that filters for the water in the seal pools be installed; that a collector be sent to Lower California; that the guide book be published; that the swamp be revamped and more plants be placed in the building.

ALVIN SEALE, *Superintendent.*

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4. Note on Two Berytidæ. <Pan-Pacific Entomologist, vol. 5, p. 166, May 31, 1929.

5. A New *Oecleus*. <Pan-Pacific Entomologist, vol. 5, p. 173, May 31, 1929.
6. Additions to the Oshanin Katalog. <Pan-Pacific Entomologist, vol. 5, p. 182, May 31, 1929.
7. Some New Western Hemiptera. <Pan-Pacific Entomologist, vol. 5, pp. 186-191, May 31, 1929.
8. A New *Corimelana*. <Pan-Pacific Entomologist, vol. 6, p. 10, October 10, 1929.
9. Mr. Walter M. Giffard—An Appreciation. <Pan-Pacific Entomologist, vol. 6, pp. 46-47, October 10, 1929.
10. A Rare Wasp from Oregon. <Pan-Pacific Entomologist, vol. 6, p. 47, 1929.
11. Note on Genus *Clastoptera*. <Pan-Pacific Entomologist, vol. 6, p. 62, December 19, 1929.
12. A New *Oliarus*. <Pan-Pacific Entomologist, vol. 6, p. 72, December 19, 1929.
13. Book Review. (General Catalogue of the Hemiptera. Fasc. II The Mesoveliidæ.) <Pan-Pacific Entomologist, vol. 6, p. 77, December 19, 1929.
14. Some Hemiptera taken by Professor Cockerell in the Orient. <Pan-Pacific Entomologist, vol. 6, pp. 91-95, December 19, 1929.

ACKNOWLEDGMENTS

The number of those who in the past year have donated valuable specimens to the Museum or who have assisted the Academy in other ways, has been unusually large. To all who have thus shown their interest in the Academy, and their appreciation of what the Academy is doing, our grateful thanks are due. The research materials in every department have been greatly increased through the many large and valuable collections that have been received.

Special mention should be made of the courtesies extended to the Academy by the Southern Pacific Company, the Atchison, Topeka, and Santa Fe Railway System, the Matson Navigation Company, and the Los Angeles Steamship Company. Each of these companies continues to cooperate with the Academy by furnishing reduced transportation to members of the staff when engaged in field work.

ACCESSIONS TO THE MUSEUM AND TO THE LIBRARY

Following is a List of Accessions to the Museum and Library received in 1929:

- Adams, Wallace, Steinhart Aquarium, San Francisco: 1 book, Standard Specifications and Tests for Portland Cement, 1917; 5 U. S. Government pamphlets; 1 pamphlet on Salmon; 2 pamphlets with set of charts; 40 folded maps; 4 numbers of Tycos. Gift.
- Anderson, Frank M., California Academy of Sciences, San Francisco: 1 geological pamphlet. Gift. 1,000 fossil shells from northern California. Exploration.
- Alepretti, Joe, Fishermen's Wharf, San Francisco: 1 Boa (*Boa imperator*), received in a shipment of bananas from Central America. Gift.
- Allyne, Misses E. and L., 2609 Gough Street, San Francisco: 2,938 shells from numerous localities. Gift.
- Anonymous: The H. S. Swarth collection of 3,150 bird skins, from California, Arizona, and Illinois. Gift.
- Apolinar-Maria, Father, Bogota, Colombia, S. A.: 226 miscellaneous Hemiptera from Colombia, South America. Gift.
- Arnold Arboretum, Jamaica Plain, Mass.: 150 botanical specimens from Asia, 54 from Australia, and 18 from America. Exchange.
- Art, Historical and Scientific Association of Vancouver, B. C.: 3 pamphlets on miscellaneous subjects. Gift.
- Asociación Argentina de Electrotécnicos, Buenos Aires, Argentina: 1 copy Boletín, número extraordinario (Volta). Gift.
- Associated Oil Company, San Francisco: 65 numbers of California Oil World; 10 numbers of Oil Weekly, 1929; 24 periodicals of the oil industry; 1 lot of well cores. Gift.
- Baker, Dr. Fred, San Diego, Calif.: 1 lot of paratypes of freshwater and marine shells; 3 volumes on natural science. Gift.
- Barker, Fred, Parkers Prairie, Minnesota: 4 bird skins from Minnesota. Purchase.
- Barnhart, P. S., Scripps Institution, La Jolla, Calif.: 2 minnows (*Leuciscus balteatus*), from Sweetwater Reservation, October 11, 1929, and two Trunkfish (*Sphœroides*), from the stomach of a Tuna taken near Socorro Island, May 1, 1929. Gift.
- Barry, David, Jr., 1001 S. La Brea Ave., Los Angeles: 2 Blue-headed Quail-Doves (*Starnænas cyanocephala*). Gift.

Bird, Henry, Rye, New York: 1 pamphlet: A Proposed Type of American Garden, by Henry Bird and Louise Knapp. Gift.

Bishop Museum library, Bernice P., Honolulu, T. H.: 1 pamphlet on San Francisco. Gift.

Blaisdell, Dr. F. E., California Academy of Sciences, San Francisco: 231 miscellaneous insects from Santa Barbara, Calif., and 48 from New Hampshire; 1 pamphlet on annelid worms; 1 U. S. Agriculture Dept. Leaflet 37, 1929. Gift.

Blankinship, J. W., Berkeley, Calif.: 599 botanical specimens from Lake County, Calif. Gift.

Boatright, C. R., 534 Eleventh Ave., San Francisco: 1 Nicobar Pigeon (*Caloenas nicobarica*). Aviary specimen. Gift.

Booth, F. E., Woodland, Calif.: 1 Martineta Tinamou (*Calopezus elegans*); 3 Bornean Argus Pheasants (*Argusianus grayi*), and 1 Burmese Peacock (*Pavo muticus*). Aviary specimens. Gift.

Bransom, Ivan, 1290 Hayes Street, San Francisco: 51 botanical specimens from California. Gift.

British Columbia, University of, Vancouver, B. C.: 1 pamphlet. Gift.

Brooklyn Museum, Eastern Parkway, Brooklyn, N. Y.: 2 skulls of the Southern Elephant Seal (*Macrorhinus leoninus*), from South Georgia. Gift.

Building Owners and Managers Association, Los Angeles, Calif.: 1 book: Southern California Geology and Los Angeles Earthquakes, 1928, by Robert T. Hill. Gift.

Bull, D. B., San Jose, Calif.: 1 Trudeau's Tern (*Sterna trudeaui*), from Argentina, S. A.; 2 lizards from Bahia, Brazil. Gift.

Burt, Charles E., Ann Arbor, Mich.: 6 lizards from Kansas, 2 frogs from Michigan, 1 snake from Michigan, and 1 lizard from Texas. Gift.

California Botanical Club, San Francisco: 244 water-color pictures of California wild flowers painted by Sophie H. Fauntleroy, with rack for their exhibition. Gift.

California State Department of Natural Resources, Division of Fish and Game, 510 Russ Building, San Francisco: 1 Whistling Swan (*Olor columbianus*), from Merced Co., Calif.; 1 Red-throated Loon (*Gavia stellata*). Gift.

California Division of Mines and Mining, San Francisco: 1 Geological Map of the State of California. Gift.

- California Taxpayers' Association, 417 South Hill Street, Los Angeles: 1 pamphlet. Gift.
- Campbell, Mrs. Constance W., California Academy of Sciences, San Francisco: 1 pamphlet. Gift.
- Capp, Mrs. S. C., San Francisco: 71 miscellaneous insects from Colombia, South America. Gift.
- Carnegie Institution of Washington, Washington, D. C.: 17 publications Gift.
- Chambers, W. Lee, Los Angeles, California: Publication, nos. 1, 2, Pasadena Academy of Sciences. Gift.
- Christoffersen, A., L. C. Smith Building, Seattle, Washington: 1 copy of Report of Alaska Fishery Investigations in 1914, by E. Lester Jones. Gift.
- Clark, H. Walton, California Academy of Sciences, San Francisco: 1 pamphlet of Indiana University; 4 specimens of California plants; 41 numbers of various periodicals. Gift.
- Collings, Ralph, P. O. Box 684, San Francisco: 2 pamphlets; A Philosophy of Gravitation, by Ralph Collings. Gift.
- Compagne de Saint-Gobain, Direction Générale des Glaceries, 1 bis, Place des Saussaies, Paris, VIII, France: 1 pamphlet on Astronomy. Gift.
- Comparative Zoology, Museum of, Cambridge, Mass.: 1 mounted skeleton of the Great Auk (*Plautus impennis*), from Funk Island. Purchase.
- Cook, Melville T., Insular Experiment Station, Rio Piedras, Porto Rico: 1 pamphlet: The Gummosis of Sugar Cane, by Melville T. Cook. Gift.
- Cooper Ornithological Club, Calif.: Program of 4th Annual Meeting, May 17-19, 1929 at San Francisco and Berkeley. Gift.
- Eastwood, Miss Alice, California Academy of Sciences, San Francisco: 39 botanical specimens from San Luis Obispo County, Calif., 825 from Arizona, and 23 from Calaveras Grove of Big Trees, Calif. Exploration. 2 books, 2 pamphlets, and 59 periodicals on various subjects. Gift.
- Eastwood, Mrs. Sidney, 4360 Umatilla Street, Denver, Colorado: 22 botanical specimens from Colorado. Gift.
- Edwards, Harmon, Hayward, Calif.: 1 Indian bead necklace. Gift.
- Ellis, Ralph, Jr., 2420 Ridge Road, Berkeley, Calif.: 3 Eastern Brook Trout (*Salvelinus fontinalis*), summit of Secret Pass, Ruby Mountains, Elko County, Nev. Gift.

- Evermann, Dr. Barton Warren, California Academy of Sciences, San Francisco: 15 colored pictures of mammals; 7 zoological periodicals, 1,324 copies of various magazines, and 48 pamphlets and periodicals; 1 pamphlet and 2 periodicals of the Milwaukee Public Museum; 51 numbers of Tea Bee and 5 reprints from Proceedings of Third Pan-Pacific Science Congress, Tokyo, 1926. Gift.
- Evermann, Meadie Hawkins (Mrs. Barton Warren Evermann), Berkeley, Calif. (through Dr. Evermann): 315 bird skins from Indiana, Wyoming, Oregon, Washington, California, and District of Columbia; 58 sheets of marine algæ from Woods Hole, Massachusetts, and 1 specimen of *Primula suffrutescens* Gray, collected by Dr. Evermann on Mt. Whitney, July 27, 1904. Gift.
- Ewetz, Carl Evert: 1 book: Weitere Beiträge zur Kenntnis der Visingsöformation, by Carl Evert Ewetz, 1929. Gift.
- Exhibits, Department of, California Academy of Sciences, San Francisco: 1 skeleton of California Otter (*Lutra pacifica brevipilosus*) from Sutter County, Calif.; 50 bird and 35 mammal skins from San Diego and Imperial counties, Calif. Gift.
- Eyer, E. E., Marshall, Calif.: 1 Western Robin, in flesh, from Marin County, Calif. Gift.
- Far Eastern Geophysical Observatory, Vladivostock, U. S. S. R.: 1 copy, Everfrozen of Soil in the Boundaries of U. S. S. R., by M. Soumgin. Gift.
- Field Museum of Natural History, Chicago, Illinois: 913 specimens of unmounted and 247 of mounted plants from various regions. Exchange.
- Fisher, Russell, Culver, Indiana: 27 specimens (8 species) of fishes, from Indiana; 13 reptiles from Lake Maxinkuckee, Indiana. Purchase.
- Földtani Szemle, Múzeum-Körut 4, Budapest VIII, Hungary: 1 Geological pamphlet. Gift.
- Fox, C. L., England (presented before his death): 142 miscellaneous insects. Gift.
- Gamon, Dave. G., San Francisco: 1 Rattlesnake (*Crotalus cerastes*) from Muroc, California. Gift.
- Gaylord Bros., Inc., Stockton, Calif.: 2 pamphlets on bookbinding. Gift.
- Geiser, S. W. Southern Methodist University, Dallas, Texas: 1 copy of Naturalists of the Frontier, by Samuel W. Geiser, and 1 copy of Professor Jacob Boll and the Natural History of the Southwest, 1929. Gift.
- Geyer, Hans, Regensburg, Germany: 6 salamanders. Gift.

- Gifford, E. W., Museum of Anthropology, Affiliated Colleges, San Francisco: 2 Verreaux's Dove (*Leptoptila verreauxi*), 1 Picui Dove (*Columbula picui*), 2 Slender-billed Cuckoo Doves (*Macropygia tenuirostris*), 1 Red Turtle Dove (*Oenopopelia tranquebarica*), and 1 Barred-wing Dove (*Chrysarchæna humeralis*). Aviary specimens. Gift.
- Goding, Dr. F. W. (through Mrs. E. P. Van Duzee), Livermore Falls, Maine: 5 bird skins from South America; 92 miscellaneous insects from Guayaquil, Ecuador. Gift.
- Grinnell, Fordyce, Jr.: 98 miscellaneous insects from the Philippine Islands. Gift.
- Grunewald, Richard, 3043 Clement Street, San Francisco: 1 volume: Chamisso's Werke. Gift.
- Grunsky, Dr. C. E., 57 Post Street, San Francisco: 1 volume: Ways to National Prosperity, by C. E. Grunsky. Gift.
- Haley, Dr. George, Berkeley, Calif.: 47 botanical specimens from Mt. Washington, New Hampshire. Exploration.
- Hall, William Hammond, 3855 Jackson Street, San Francisco: 9 photographs of the California Academy of Sciences Building taken after the earthquake and fire of 1906. Gift.
- Halperin, A. Z., Chicago, Illinois: Subscription to "The Reflex." Gift.
- Hanna, Dr. G. Dallas, California Academy of Sciences, San Francisco: 68 miscellaneous insects from Poso Creek, Calif., 3 sets of eggs from Kern County and 18 sets from San Mateo, Lake, Santa Clara, and Mendocino counties, Calif.; eggs of California Horned Lark, $\frac{1}{3}$ from McLure Valley, Kings County, Calif.; 3 salamanders from Guyama River, 9 miles S. E. of Santa Maria, Calif.; 1 geological map, 129 pamphlets and 9 periodicals on various subjects; 6 pamphlets on diatoms and 1 on mollusks; 1 excerpt and 9 pamphlets on geological subjects; 58 numbers of various periodicals. Gift.
- Hanna, Dr. G. Dallas, and Nicholson, J. L., California Academy of Sciences, San Francisco: 5,000 living shells from northern California and southern Oregon. Exploration.
- Hart, Cecil, 132 North Third Street, Montebello, Calif.: 5 specimens of California plants. Gift.
- Haskell, Dr. H. A., Grand Southern Hotel, San Francisco: Some limb bones of the California Sea Lion (*Zalophus californianus*), and 2 tympanic bones of a Sulphur-bottom Whale (*Sibbaldus musculus*). Gift.

- Heid, Graham, Alameda, Calif.: 17 miscellaneous insects from Sumatra. Gift.
- Herron, Miss Katherine, San Francisco: 1 copy of Who's Who in California, 1928-29. Gift.
- Hertlein, Leo George, California Academy of Sciences, San Francisco: 2 boxes of Cretaceous fossils from Alberta, Canada; 1 pamphlet on mollusca; 1 pamphlet on San Francisco, and 1 geological pamphlet; 4 numbers of San Diego Natural History Museum Bulletin. Gift.
- Hendrick, Russell, San Francisco: 1 snake (*Thamnophis ordinoides elegans*) from Baltimore Park, Marin County, Calif. Gift.
- Hoffmann, Ralph, Santa Barbara, Calif.: 304 botanical specimens from Santa Cruz and Santa Rosa islands, Calif. Gift.
- Holme, Adolph, Redwood City, Calif.: 4 specimens of cultivated plants. Gift.
- Howell, John Thomas, University of California, Berkeley, Calif.: 1201 specimens of California plants, 18 of them duplicates. Gift.
- Illinois, University of, Museum of Natural History, Urbana, Illinois: 2 pamphlets on natural history subjects. Gift.
- Indiana University, Bloomington, Ind.: The Jordan-Eigenmann Collection of Fishes, consisting of more than 220,000 specimens and containing many types and cotypes. Purchase.
- Institute of International Education, New York, N. Y.: 1 copy, Directory of Russian Educators, Research Specialists, and Scientists now living in Europe. Gift.
- Irving-Cloud Publishing Co., Chicago, Illinois: 1 book on motor maintenance. Gift.
- Istituto di Zoologia ed Anatomia Comparata, Siena, Italy: 28 separates by members of the staff of the Istituto. Gift.
- Israelsky, Merle C., Shreveport, Louisiana: 1 pamphlet on Cretaceous Ostracoda of Arkansas, 1929. Gift.
- Jordan Game Farm, Woodland, Calif.: 1 Green Peacock (*Pavo muticus*). Gift.
- Jussel, M. S., Polytechnic High School, San Francisco: 127 specimens of California plants. Gift.
- Kahn, Mrs. Florence, Washington, D. C.: 1 book, The Tariff Bill of 1929; a copy of the Congressional Directory, 71st Cong. 2d Sess. Gift.

- Kavanaugh, James, Steinhart Aquarium, San Francisco: 3 numbers of San Francisco Police and Peace Officers Journal. Gift.
- Klocker, Mrs. Ada, Medford, Oregon: 3 specimens of Oregon plants. Gift.
- Kusche, J. August, Los Angeles, Calif.: 100 botanical specimens from Arizona. Purchase.
- Lamme, Sam, Colusa, Calif.: 1 river otter (*Lutra canadensis brevipilosus*) female, from Sacramento Valley. Purchase.
- Lastreto, Carlos B., San Francisco, Calif.: 1 pamphlet on South America and 68 miscellaneous periodicals. Gift.
- Laycock, H., Tegucigalpa: Jaws of a large Tiger Shark (*Galeocерdo arcticus*) from the Gulf of Fonseca. Gift.
- Leach, E. R., 217 Hillside Avenue, Piedmont, Calif.: 37 miscellaneous insects from California. Gift.
- Linsley, Gorton, 2050 Tenth Avenue, Oakland, Calif.: 601 miscellaneous exotic insects. Gift.
- Logan, Hugh, Inverness, Calif.: 1 Harlequin Duck (*Histrionicus histrionicus pacificus*); and 1 Emperor Goose (*Philacte canagica*) from Marin County, Calif. Gift.
- Lotzen, Hugo, 3144 22nd Street, San Francisco: 1 nest of the Water Ouzel (*Cinclus mexicanus unicolor*) from Nevada County, Calif. Gift.
- Lowe, H. N., Los Angeles, Calif.: 1 lot of paratypes of land snails. Gift.
- Mailliard, Joseph, California Academy of Sciences, San Francisco: 1 Gambel's Sparrow (*Zonotrichia gambelii*) and 2 California Pocket Gophers (*Thomomysottæ bottæ*) from Marin County, Calif.; 1 land snail from Bohemian Grove, Calif. Gift.
- Martens, Carl F., 2320 Webster Street, Berkeley, Calif.: 1 piece of quartz from Tioga Pass, Calif. Gift.
- Martin, Half Moon Bay, Calif.: 1 fish (*Hemilepidotus hemilepidotus*) from Half Moon Bay, Calif. Gift.
- Martin, H. M., 503 Lemon Avenue, Arcadia, Calif.: 15 reptiles from southern California. Gift.
- Martin, J. O., California Academy of Sciences, San Francisco: The J. O. Martin Collection of Coleoptera, 11,200 specimens; 1 Report of the U. S. National Museum, 1928. Gift.

- Marvin, Mrs. L. F., 1230 Geary Street, San Francisco: 1 feather pom-pom from South American Indians; 2 bundles of pig bristles. Gift.
- McAllister, M. Hall, California Academy of Sciences, San Francisco: 1 periodical; 12 numbers of the Scientific American. Gift.
- McCorkle, Kenneth, 38 Uplands, Berkeley, Calif.: 1 Alaska Grayling (*Thymallus signifer*) from outlet of Surprise Lake, east of Atlin, B. C. Gift.
- McDonald, Miss Julia, 1221 Lombard Street, San Francisco: 32 botanical specimens from Fresno, Calif. Gift.
- McGuire, Ignatius, Princeton, New Jersey: 1 periodical; 1 scientific pamphlet. Gift.
- McKelvey, Mrs. Susan D., 1666 Riverway, Boston, Mass.: 71 botanical specimens from Arizona. Gift.
- McLaren, John, Golden Gate Park, San Francisco: 1 Chattering Lory (*Lorius garrulus*); 1 Beaver, 1 Chukar Partridge (*Alectoris græca chukar*); 1 Sulphur-crested Cockatoo (*Kakatoë galerita*). Gift.
- Meadows, Don C., Santa Catalina Island, Calif.: 1 water snake. Gift.
- Mexia, Mrs. Inez, 1909 Lake Street, San Francisco: 22 botanical specimens from Mexico and 13 from California. Gift. 351 botanical specimens from McKinley National Park, Alaska. Purchase.
- Milks, Jack, Padre Hotel, Bakersfield, Calif.: 1 shark tooth from Shark Tooth Hill, Kern County, Calif. Gift.
- Moffitt, James, 1879 Broadway, San Francisco: 1 Farallon Cormorant (*Phalacrocorax auritus albociliatus*), and 1 Baird's Cormorant (*Phalacrocorax pelagicus resplendens*) from Marin County, Calif. Gift.
- Montandon, Dr. George, Rue Louis-Guespin, 22, Paris-Clamart, France: 1 pamphlet. Gift.
- Morcom, G. Frean, 243 N. Coronado Street, Los Angeles, Calif.: The Morcom collection of 3,000 bird skins from the United States. Gift.
- Mori, T., 94 Golden Gate Avenue, San Francisco: 1 Swinhoe Pheasant (*Gennæus swinhoii*); 1 Fire-back Pheasant (*Lophura ignita*); 2 Bullfinches (*Pyrrhula pyrrhula*); 1 Forsten's Lory (*Trichoglossus forsteni*). Gift.
- Morrice, Charles, Bakersfield, Calif.: 1 small box of fossils from Kettleman Hills; 1 box of fossils from Kern County, Calif., and some vertebrate fossil material from Shark Tooth Hill, Kern County, Calif. Gift.

- Morse, Elizabeth, Department of Botany, University of California, Berkeley, Calif.: 1 small box of concretions from between El Centro and San Diego, Calif. Gift.
- Morrison, Mrs. A. F., San Francisco: 1 copy of Who's Who in California, 1928-29. Gift.
- Museum of Comparative Zoology, Cambridge, Mass.: 1 mounted skeleton of the Great Auk (*Plautus impennis*) from Funk Island. Purchase. One photograph of a mounted specimen of the Great Auk. Gift.
- National Research Council of Japan, Tokyo, Japan: 2 volumes: Proceedings of the Third Pan-Pacific Science Congress, Tokyo, 1926. Gift.
- Natuurwetenschappelijke Raad voor Nederlandsch-Indië: 1 pamphlet, a catalogue of literature on the study of science in the Dutch East Indies. Gift.
- Netherlands Indies Medical and Sanitary Service, Weltevreden, Java: 1 volume: Control of Endemic Diseases in the Netherlands Indies, 1929. Gift.
- Newell, Mrs. Gwendolen, 180 Duboce Street, San Francisco: 60 specimens of plants from Silver Lake, Amador County, Calif. Gift.
- Nicholson, J. L., Jr., Berkeley, Calif.: Vermont State Geologist's 16th Annual Report. Gift.
- Nicol, J. M., Babilonia Mines, La Labertad, Chontales, Nicaragua: 45 moths from Nicaragua. Gift.
- Nolla, J. A. B., Insular Experiment Station, Rio Piedras, Porto Rico: 1 copy of The Black-shank of Tobacco in Porto Rico, by J. A. B. Nolla. Gift.
- Nye, Clarice, Prospect, Oregon: 5 botanical specimens from Oregon. Gift.
- Pammel, Dr. L. N., Iowa State College, Ames, Iowa: 2 pamphlets. Gift.
- Parish, H. S., 15 Briarcroft Road, Toronto, Canada: 66 moths from the Southwestern States. Gift; 838 miscellaneous insects from China and 290 from Mexico and Trinidad Island, B. W. I. Purchase.
- Patton, J. V., Hollister, Calif.: 1 Formosan Partridge (*Arboricola crudigularis*) and 1 Chukar (*Alectoris græca chukar*). Aviary specimens. Gift.
- Peers, Miss Susie, M., California Academy of Sciences, San Francisco: Current files of Science, Manchester Guardian, weekly edition, and Standard Oil Bulletin. Gift.
- Phelps, Mrs. G. H., 580 McAllister Street, San Francisco: 100 botanical specimens from Idaho, Utah, and Colorado. Gift.

- Philippines, University of, Agricultural College, Laguna, P. I.: 1 copy of A Preliminary Study of the Life History and Habits of Kanduli in Laguna de Bay, July 1929. Gift.
- Pierce, J. H., Paso Robles, Calif.: 1 whale skull. Purchase.
- Port of New York Authority, The, New York, N. Y.: The Port of New York Authority, 8th Annual Report, December 31, 1928. Gift.
- Purdy, Carl, Ukiah, Calif.: 4 specimens of cultivated plants. Gift.
- Quayle, Ernest, Stanford University, Calif.: 1 photostat copy of map of the world showing coral reefs. Gift.
- Ransier, H. E., Manlius, N. Y.: 9 photographs of California Academy of Sciences's mammal habitat groups. Gift.
- Ray, Milton S., 2901 Broadway, San Francisco: 1 Black-billed Magpie (*Pica pica hudsonia*) from Placer County, Calif. Gift.
- Rhodda, Mrs. Anna, 2616 Sacramento Street, San Francisco: 6 botanical specimens from Sonoma County, Calif. Gift.
- Robison, Ansel, 1072 Market Street, San Francisco: 2 Kuhl's Ruffed Lories (*Vini kuhli*) from Washington Island; 1 Hyacinthine Macaw (*Anodorhynchus hyacinthinus*); 1 White Cockatoo (*Kakatoë galerita*); 1 Petz' Paroquet (*Eupsittula canicularis*); 1 Tovi Paroquet (*Brotogeris jugularis*) from Central America; 1 Blue Java Sparrow (*Munia oryzivora*); 1 Society Finch (*Uroloncha striata*); 1 Black-headed Nun (*Munia atricapilla*); 2 Strawberry Finches (*Amandava amandava*); 1 Philippine Hanging Paroquet (*Loriculus apicalis*). Aviary specimens. Gift.
- Rosenberg, W. F. H., 57 Haverstock Hill, London, N. W. 3., England: 113 bird skins. Purchase.
- Rountree, Mrs. Lester, Carmel, Calif.: 14 botanical specimens. Gift.
- Royal Library, The Hague, Holland: 4 pamphlets on various subjects. Gift.
- Sanford, Mrs. O. N., 152-7th Avenue, San Francisco: 8 boxes of shells; 21 bound volumes and 12 pamphlets on various subjects; 1 pamphlet on Indians. Gift.
- Science Society of China, Nanking, China: 1 pamphlet. Gift.

- Scripps Institution of Oceanography, La Jolla, Calif.: 1 pamphlet on Diatoms. Exchange.
- Seale, Alvin, Steinhart Aquarium, San Francisco: 20 miscellaneous insects from Samoa. Gift.
- Siebenbürgischer Verein für Naturwissenschaften, Hermannstadt, Roumania: 2 publications. Exchange.
- Sinseheimer, Miss Gertrude, San Luis Obispo, Calif.: 2 botanical specimens from California. Gift.
- Slevin, L. S., Carmel, Calif.: 26 land and freshwater shells from Paso Robles, Calif.; 2 snakes and 1 salamander from San Jose Canyon, Carmel, Calif.; 1 snake from Aptos, Santa Cruz County, Calif.; 6 salamanders from Carmel, Calif.; 1 small lot of freshwater snails from Paso Robles, Calif.; 2000 insects, mostly moths, from California. Gift.
- Smith, A. G., Berkeley, Calif.: 3 specimens of Red Abalone from the coast 3 miles north of Gualala, Calif. Gift.
- Smith, James Perrin, Stanford University, Calif.: 1 copy of The Transitional Permian Ammonoid Fauna of Texas, by James Perrin Smith. Gift.
- Sociedad de Anthropologia y Etnographia de Mexico, D. F., Mexico: 1 copy of Monografia de los Tarahumaras, by Carlos Basauri. Gift.
- Society of Motion Picture Engineers, 29 West 39th Street, New York, N. Y.; 1 copy of The Society of Motion Picture Engineers; Its Aims and Accomplishments; Synopses of Papers Published; with author and subject indices; committees, July, 1916-April, 1928. Gift.
- Staudinger, O., and Bang-Haas, A., Germany: 61 Hemiptera. Purchase.
- Steinbeck, J. W., 611 Bristol Avenue, Stockton, Calif.: 2 Chinese Peacock Pheasants (*Polyplectrum chinquis*); 1 Indian Bronze-wing Dove (*Chalcophaps indica*). Aviary specimens. Gift.
- Steinhart Aquarium, Golden Gate Park, San Francisco: 1 fish (*Thalassoma fuscum*); 11 specimens of two species of fishes; 2 Lampreys (*Entosphenus tridentatus*), from mouth of San Lorenzo River, March 29, 1929. Gift. 3 Mosquito Fish (*Gambusia affinis*), from Irrigation ditch near Coachella, Calif. Exploration.
- Stevens, J. B., Bakersfield, Calif.: 2 specimens of fossil nuts; 100 fossil shells from Kern County. Gift.
- Stewart, George W., Box 1132, Sacramento, Calif.: 1 copy of Prehistoric Basins in the Sierra Nevada of California, 1929. Gift.

- Stohler, Dr. Rudolf, Hooper Foundation for Medical Research, San Francisco: 3 biological pamphlets. Gift.
- Sutcliffe, Mrs. E. C., 700 Lake Street, San Francisco: 20 botanical specimens from Yosemite National Park; 15 botanical specimens from Sullivant Moss Society, Superior, Wisconsin; 3 volumes of *The Bryologist*. Gift.
- Swarth, George, 2800 Prince Street, Berkeley, Calif.: 907 miscellaneous insects from Atlin, British Columbia. Purchase.
- Swarth, Harry S., California Academy of Sciences, San Francisco: 32 mammal skins and 33 skulls, 296 bird skins, 6 sets (26 eggs), and 5 bird nests from British Columbia; 4 specimens of birds from Colusa County, Calif. Exploration. *The Museum*, vol. 1, nos. 2, 7, 11; 46 ornithological separates; 51 periodicals on scientific subjects; 2 pamphlets; 1 copy, 59th Annual Report, American Museum of Natural History. Gift.
- Swarth, Mrs. Winifern W., 2800 Prince Street, Berkeley, Calif.: 179 botanical specimens from Lake Atlin Region, British Columbia. Gift.
- Taylor, Mrs. Ross, Calif.: 3 mud wasps. Gift.
- Thompson, Robert L., Jr., 726-11th Ave., San Francisco, Calif.: 1 White-tailed Kite (*Elanus leucurus*). Gift.
- Tiran, G., P. O. Box 116, Saigon, French Indo-China: 1 pamphlet: Big Game Hunting in French Indo-China. Gift.
- Toftley, Charles, San Francisco: 2 lizards from San Francisco, Calif. Gift.
- Tose, Frank, California Academy of Sciences, San Francisco: 1 snake (*Thamnophis ordinoides atratus*), from Marin County, Calif.; 2 reprints from Museum News of October 15, 1920; 3 bound volumes and 2 pamphlets. Gift.
- Trost, Henry, de Young Memorial Museum, San Francisco: 6 House Sparrows (*Passer domesticus*), from San Francisco. Gift.
- Van Duzee, E. P., California Academy of Sciences, San Francisco: 77 miscellaneous insects from Santa Cruz, Calif. Exploration. 1 small box of land snails; 2 Mexican agricultural pamphlets; 1 volume of Entomological Paper of the University of California; 10 volumes and 47 numbers of various periodicals. Gift.
- Van Duzee, E. P., and Usinger, Robert, California Academy of Sciences, San Francisco: 8261 miscellaneous insects from Owens Valley, Calif. Exploration.

- Van Dyke, Dr. E. C., University of California, Berkeley, Calif.: 1 salamander from Woodacre, Marin County, Calif.; 6 small lots of land snails from California; 25 specimens of land snails from various localities; 1931 miscellaneous insects from Sequoia National Park, 174 from the Black Mountains, North Carolina, and 1928 from southern California. Gift.
- Van Dyke, Mrs. E. C., 2440 Stuart Street, Berkeley, Calif.: 60 botanical specimens from Mt. Hood and the Three Sisters, Oregon. Gift.
- Venturi, S., Tucuman, Argentina, South America: 403 botanical specimens from Argentina. Purchase.
- von Geldern, Otto, Pacific Building, San Francisco: 1 copy of Reminiscences of the Pioneer Engineers of California, 1929. Gift.
- Vortriede, William, Capitol Park, Sacramento, Calif.: 138 specimens of California plants. Gift.
- Walther, Eric, Golden Gate Park, San Francisco: 500 specimens of exotic plants. Gift.
- Warrington, Henry, Sutter Creek, Amador County, Calif.: 1 Lewis's Woodpecker (*Asyndesmus lewisi*) from Amador County, Calif. Gift.
- Watson, Dr. Elba Emanuel, Michigan State College, East Lansing, Michigan: 1 book: Contributions to a Monograph of the Genus *Helianthus*, 1929. Gift.
- Wright, J. T., California Academy of Sciences, San Francisco: 1 woodpecker (*Picus canus guerini*), from China. Gift.

FINANCIAL STATEMENTS

REPORT OF THE TREASURER

For the fiscal year ending December 31, 1929

January 1, 1929, Balance due Crocker First National Bank. . . . \$ 3,782.56

Receipts:

Dues.....	\$ 3,540.75
Charles Crocker Scientific Fund Endowment Income.....	1,749.56
James Lick Endowment Income.....	70,411.08
General Income.....	19,866.94
John W. Hendrie Endowment Income...	1,157.85
Post Card Sales.....	972.82
Publication.....	674.21
Interest.....	1,237.72
Ignatz Steinhart Trust Interest.....	833.97
Duplicate Sales Account.....	15.10
W. G. Wright Fund.....	10.00
Bills Receivable.....	1,000.00
Sale of 416 shares stock Goldman Sachs Trading Corporation.....	43,561.11
Great Auk Donation.....	75.00
Sale of Dodge Car.....	75.00
Ignatz Steinhart Trust Bills Receivable .	7,000.00
Wild Life Protection Fund.....	100.00

Total Receipts..... \$152,281.11

\$148,498.55

REPORT OF THE TREASURER—Continued

Expenditures:

Interest	\$ 10,543.45
Contingent Fund	504.42
Salary Expense General	19,430.75
Department Salaries	20,993.90
Earthquake Insurance Sinking Fund	1,200.00
Bills Payable	10,000.00
Bills Receivable	49,000.00
Steinhart Aquarium Equipment	7,127.71
Insurance	1,697.49
Wild Life Protection Fund	47.56
Appraiser's and Attorneys Fees	1,200.00
Henry M. Holbrook Fund	25.28
Post Card Sales Account	43.21
Great Auk Donation	253.55
Sundry Creditors	1,862.35
Museum Department Appropriations	12,993.38
Expense	2,631.09
Publications	4,852.60
Library	4,976.73
<i>Total Expenditures</i>	<u>\$149,383.47</u>

January 1, 1930, Balance due Crocker First National Bank . . . \$ 884.92

M. HALL McALLISTER, *Treasurer.*

Examined and found correct,

PACE, GORE & McLAREN, *Certified Public Accountants.*

San Francisco, Calif., February 18, 1930.

INCOME AND OPERATING EXPENSES

For the fiscal year, January 1, 1929, to December 31, 1929

Income:

Charles Crocker Scientific Fund Endowment Income.....	\$ 1,749.56
James Lick Endowment Income.....	70,411.08
General Income.....	19,866.94
Dues.....	3,540.75
Interest on Temporary Investments.....	1,237.72
Profit on Post Card Sales.....	603.07
<i>Total Income.....</i>	<i>\$ 97,409.12</i>

Expenditures:

General Expense.....	\$ 2,784.83
Salaries.....	40,595.71
Interest.....	11,258.45
Insurance.....	1,697.49
Appraiser's Fees.....	1,200.00
<i>Total Expenditures.....</i>	<i>\$ 57,536.48</i>
Net Income Transferred to Surplus Account.....	\$ 39,872.64

SUMMARY OF SURPLUS ACCOUNT

December 31, 1929

Balance January 1, 1929..... \$546,531.53

Additions:

Net Income for the year ended December 31, 1929.....	\$ 39,872.64
Profit on Securities Sold.....	2,665.57
Sale of Duplicate Books.....	15.10
Donations toward Purchase of Great Auk Skeleton.....	75.00
Library Purchases from W. G. Wright Fund.....	8.97

Total Additions to Surplus..... \$ 42,637.28

\$589,168.81

Deductions:

Depreciation.....	\$ 16,226.42
Loss on Sale of Automobile.....	198.75

Total Deductions from Surplus..... \$ 16,425.17

Surplus, December 31, 1929..... \$572,743.64

BALANCE SHEET

December 31, 1929

*Assets**Property:*

Real Estate, 831-833 Market Street.....	\$600,000.00
Commercial Building, 833 Market Street....	516,818.66
Real Estate, Jessie Street.....	8,083.65
	<hr/> \$1,124,902.31

Museum, Golden Gate Park:

Building Construction.....	\$192,025.92
General Collections.....	201,611.26
Library and Equipment.....	149,748.43
Tools and Equipment.....	45,780.93
Office Furniture.....	5,752.84
	<hr/> \$ 594,919.38

<i>Investment Securities</i>	\$ 5,763.64
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Ignatz Steinhart Trust:

Bills Receivable.....	\$ 5,000.00
Steinhart Aquarium Construction.....	263,390.29
Steinhart Aquarium Equipment.....	34,257.58
Steinhart Aquarium Revolving Fund.....	5,000.00
Uninvested cash on hand.....	977.28
	<hr/> \$ 308,625.15

Current Assets:

Bills Receivable.....	\$ 58,000.00
Post Cards in stock.....	267.54
Cash on hand.....	125.49
Advances to employees doing field work...	1,836.69
	<hr/> \$ 60,229.72

Total.....	<hr/> \$2,094,440.20
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BALANCE SHEET—Continued

*Liabilities**Endowments:*

James Lick Endowment.....	\$804,902.31	
Charles Crocker Scientific Fund Endowment.....	20,000.00	
John W. Hendrie Endowment.....	32,770.85	
	<hr/>	\$ 857,673.16

Funds Held for Special Purposes:

Alvord Bequest Botanical.....	\$ 5,000.00	
John W. Hendrie Endowment Income.....	1,157.85	
Earthquake Insurance Sinking Fund Income	463.64	
W. G. Wright Fund.....	32.57	
Park Birds Handbook Fund.....	20.00	
Wild Life Protection Fund.....	122.35	
	<hr/>	\$ 6,796.41

<i>Reserve for Depreciation.....</i>	<i>\$ 149,603.19</i>
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Ignatz Steinhart Trust:

Principal.....	\$250,000.00	
Interest.....	58,625.15	
	<hr/>	\$ 308,625.15

Notes and Accounts Payable:

Bills Payable.....	\$195,000.00	
Accounts Payable and Accruals.....	2,136.45	
Due Crocker First National Bank (Overdraft).....	1,862.20	
	<hr/>	\$ 198,998.65

<i>Surplus.....</i>	<i>\$ 572,743.64</i>
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Total.....	\$2,094,440.20
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SUSIE M. PEERS,
Secretary, Board of Trustees.

We have examined the foregoing Balance Sheet, together with the books and accounts of the California Academy of Sciences, and in our opinion, it is properly drawn up so as to exhibit a true and correct view of the Academy's affairs, as shown by the books.

PACE, GORE & McLAREN,
Certified Public Accountants.

San Francisco, Calif.,
February 18, 1930.



Evermann, Barton Warren. 1930. "Report of the director of the museum and of the aquarium for the year 1929." *Proceedings of the California Academy of Sciences, 4th series* 18, 542–586.

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